Maan Al-Zareer

List of Publications by Year
in descending order

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37 papers	1,364 citations	331670 21 h-index	395702 33 g-index
37 all docs	37 docs citations	37 times ranked	1042 citing authors

#	Article	IF	Citations
1	Novel thermal management system using boiling cooling for high-powered lithium-ion battery packs for hybrid electric vehicles. Journal of Power Sources, 2017, 363, 291-303.	7.8	159
2	A review of novel thermal management systems for batteries. International Journal of Energy Research, 2018, 42, 3182-3205.	4.5	138
3	Electrochemical modeling and performance evaluation of a new ammonia-based battery thermal management system for electric and hybrid electric vehicles. Electrochimica Acta, 2017, 247, 171-182.	5.2	82
4	Heat and mass transfer modeling and assessment of a new battery cooling system. International Journal of Heat and Mass Transfer, 2018, 126, 765-778.	4.8	78
5	A novel approach for performance improvement of liquid to vapor based battery cooling systems. Energy Conversion and Management, 2019, 187, 191-204.	9.2	70
6	Development and assessment of a novel integrated nuclear plant for electricity and hydrogen production. Energy Conversion and Management, 2017, 134, 221-234.	9.2	61
7	A novel phase change based cooling system for prismatic lithium ion batteries. International Journal of Refrigeration, 2018, 86, 203-217.	3.4	56
8	A thermal performance management system for lithium-ion battery packs. Applied Thermal Engineering, 2020, 165, 114378.	6.0	50
9	Production of hydrogen-rich syngas from novel processes for gasification of petroleum cokes and coals. International Journal of Hydrogen Energy, 2020, 45, 11577-11592.	7.1	50
10	Analysis and assessment of novel liquid air energy storage system with district heating and cooling capabilities. Energy, 2017, 141, 792-802.	8.8	49
11	Analysis and assessment of a hydrogen production plant consisting of coal gasification, thermochemical water decomposition and hydrogen compression systems. Energy Conversion and Management, 2018, 157, 600-618.	9.2	47
12	Development and evaluation of a new ammonia boiling based battery thermal management system. Electrochimica Acta, 2018, 280, 340-352.	5.2	45
13	Comparative assessment of new liquid-to-vapor type battery cooling systems. Energy, 2019, 188, 116010.	8.8	39
14	Performance assessment of a new hydrogen cooled prismatic battery pack arrangement for hydrogen hybrid electric vehicles. Energy Conversion and Management, 2018, 173, 303-319.	9.2	38
15	Influence of Selected Gasification Parameters on Syngas Composition From Biomass Gasification. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	37
16	Performance analysis of a supercritical water-cooled nuclear reactor integrated with a combined cycle, a Cu-Cl thermochemical cycle and a hydrogen compression system. Applied Energy, 2017, 195, 646-658.	10.1	36
17	Analysis and assessment of the integrated generation IV gas-cooled fast nuclear reactor and copper-chlorine cycle for hydrogen and electricity production. Energy Conversion and Management, 2020, 205, 112387.	9.2	33
18	Predicting specific heat capacity and directional thermal conductivities of cylindrical lithium-ion batteries: A combined experimental and simulation framework. Applied Thermal Engineering, 2021, 182, 116075.	6.0	32

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19	Effects of various gasification parameters and operating conditions on syngas and hydrogen production. Chemical Engineering Research and Design, 2016, 115, 1-18.	5.6	30
20	Heat transfer modeling of a novel battery thermal management system. Numerical Heat Transfer; Part A: Applications, 2018, 73, 277-290.	2.1	22
21	Assessment and analysis of hydrogen and electricity production from a Generation IV lead-cooled nuclear reactor integrated with a copper-chlorine thermochemical cycle. International Journal of Energy Research, 2018, 42, 91-103.	4.5	22
22	Numerical Study of Flow and Heat Transfer Performance of 3D-Printed Polymer-Based Battery Thermal Management. International Journal of Heat and Mass Transfer, 2020, 158, 119995.	4.8	22
23	Modeling and performance assessment of a new integrated gasification combined cycle with a water gas shift membrane reactor for hydrogen production. Computers and Chemical Engineering, 2017, 103, 275-292.	3.8	21
24	Transient thermodynamic analysis of a novel integrated ammonia production, storage and hydrogen production system. International Journal of Hydrogen Energy, 2019, 44, 18214-18224.	7.1	21
25	THERMAL BEHAVIOR OF LITHIUM-ION BATTERIES: AGING, HEAT GENERATION, THERMAL MANAGEMENT AND FAILURE. Frontiers in Heat and Mass Transfer, 0, 14, .	0.2	20
26	Development of an integrated system for electricity and hydrogen production from coal and water utilizing a novel chemical hydrogen storage technology. Fuel Processing Technology, 2017, 167, 608-621.	7.2	16
27	Multi-objective optimization of an integrated gasification combined cycle for hydrogen and electricity production. Computers and Chemical Engineering, 2018, 117, 256-267.	3.8	16
28	Development and analysis of a new tube based cylindrical battery cooling system with liquid to vapor phase change. International Journal of Refrigeration, 2019, 108, 163-173.	3.4	16
29	Development and analysis of an integrated system with direct splitting of hydrogen sulfide for hydrogen production. International Journal of Hydrogen Energy, 2016, 41, 20036-20062.	7.1	15
30	Heat Transfer and Thermodynamic Analyses of a Novel Solidâ€“Gas Thermochemical Strontium Chlorideâ€“Ammonia Thermal Energy Storage System. Journal of Heat Transfer, 2018, 140, .	2.1	15
31	Development and analysis of a portable compressed liquid air cooling system for fast vehicle cabin cooling. International Journal of Refrigeration, 2017, 84, 117-127.	3.4	10
32	Predicting anisotropic thermophysical properties and spatially distributed heat generation rates in pouch lithium-ion batteries. Journal of Power Sources, 2021, 510, 230362.	7.8	8
33	Transient Energy and Exergy Analyses of a Multistage Hydrogen Compression and Storage System. Chemical Engineering and Technology, 2018, 41, 1594.	1.5	6
34	Thermal Characterization Approach for In Situ Estimation of Thermophysical Properties of Magnetic Components of Electric Vehicle Fast Chargers. IEEE Transactions on Power Electronics, 2022, 37, 10761-10774.	7.9	2
35	3.10 Electrochemical Energy Production. , 2018, , 416-469.		1
36	3.11 Chemical Energy Production. , 2018, , 470-520.		1

#	Article	IF	Citations
37	Tunable hydrodynamic focusing with dual-neodymium magnet-based microfluidic separation device. Medical and Biological Engineering and Computing, 2022, 60, 47-60.	2.8	0